

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

**1-12 (canceled).**

13. (new): A device for detecting a frozen image on an active-matrix liquid crystal display screen, comprising:

    a photoelectric cell covering a display area of said screen, said cell being capable of delivering an electrical signal representative of luminance in said area;

    control means for displaying a variable pattern at a characteristic frequency in said display area;

    means for processing an electrical signal delivered by said cell, in order to detect said frequency; and

    means for displaying an alarm should said frequency not be detected.

14. (new): The detection device as claimed in claim 13, wherein said variable pattern corresponds to an on/off control for the pixel elements in said display area at said characteristic frequency ( $f_c$ ).

15. (new): The detection device as claimed in claim 13, wherein the characteristic frequency can be varied.

16. (new): The detection device as claimed in claim 13, wherein the matrix is arranged in rows and columns and is driven by a row select driver and a data display or column driver, and the drivers comprises shift registers with a plurality of cascaded stages, wherein the display area

corresponds to the rows and columns of the matrix controlled by the last stages of said shift registers.

17. (new): The detection device as claimed in claim 13, comprising a light-emitting diode as back light source for said display area.

18. (new): The detection device as claimed in claim 13, including first and second cells placed side by side facing said display area, one cell operating in low-luminance mode and the other cell operating in high-luminance mode.

19. (new): The detection device as claimed in claim 13, wherein the cell or cells are housed in a cavity provided in a corner area of a frame for said screen, said corner area overlapping the display area.

20. (new): The detection device as claimed in claim 19, wherein the frame or at least said corner area of the frame is of the type protected from electromagnetic interference.

21. (new): The detection device as claimed in claim 13, wherein said means for processing the electrical signal delivered by the cell(s) comprise an amplifier element, for amplifying said signal, which is placed as close as possible to the cell(s).

22. (new): The detection device as claimed in claim 21, wherein said amplifier element is placed in the cavity in the immediate vicinity of an associated cell.

23. (new): The detection device as claimed in claim 13, wherein the variable pattern to be displayed in said display area is generated by a specific electronic circuit associated with the screen.

24. (new): The detection device as claimed in claim 1, wherein the variable pattern to be displayed in said display area is generated by one or more graphics processors that control the images to be displayed on said screen.

25. (new): The detection device according to claim 18, wherein the cell or cells are housed in a cavity provided in a corner area of a frame for said screen, said corner area overlapping the display area.

26. (new): The detection device as claimed in claim 21, wherein said amplifier element is placed in the cavity in the immediate vicinity of an associated cell.

27. (new): The detection device as claimed in claim 26, wherein said amplifier element is placed in the cavity in the immediate vicinity of an associated cell.